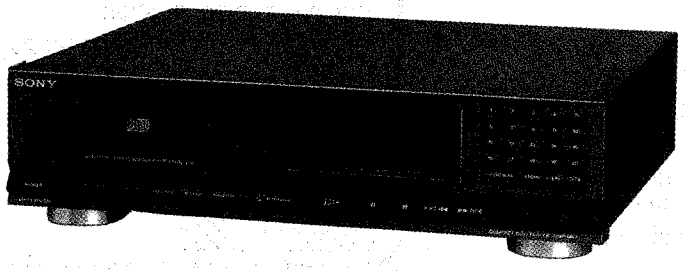
CDP-M42

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model



Model Name Using Similar Mechanism	CDP-291/391
CD Transport Mechanism Type	CDM14-5BD1
Optical Pick-Up Block Type	BU-5BD1

SPECIFICATIONS

Compact disc player

Frequency response	2 Hz to 20 kHz ±0.5 dB
Signal-to-noise ratio	More than 100 dB
Dynamic range	More than 92 dB
Harmonic distortion	Less than 0.004%
Channel separation	More than 95 dB
Output	LINE OUT (phono jacks) Ouput level 2 V (at 50 kohms) Load impedance over 10 kohms
Power requirements	220-230V AC, 50/60Hz (AEP model) 240V AC, 50/60Hz (UK, AUS model) 110-120, 220-240V AC adjustable, 50/60Hz (E, EA model)
Power consumption	12 W
Weight	Approx. 3.3 kg (6 lbs 10 oz)
Dimensions	Approx. 355 × 95 × 305 mm (w/h/d, including projections) (14 × 3 3/4 × 12 1/8 inches)
Supplied accessory	Audio connecting cord (1)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

- AUS: Australian model
- EA: Saudi Arabia Model

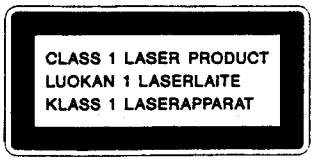
MICROFILM

COMPACT DISC PLAYER

SONY®

1. Laser Diode Properties
   - Material : GaAlAs
   - Wavelength : 780nm
   - Emission Duration : continuous

For the United Kingdom and European countries



This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

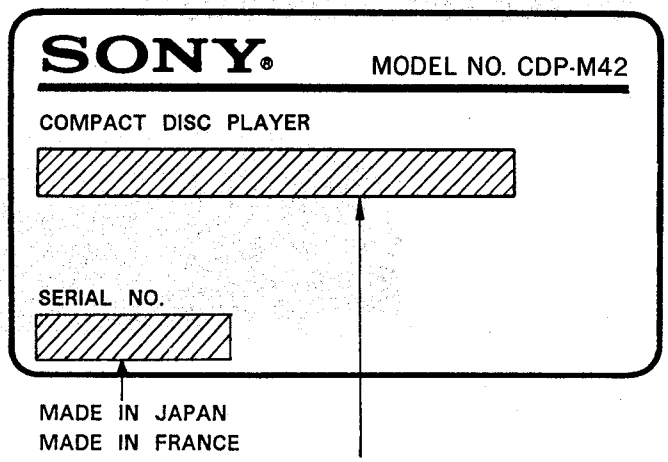
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION

—Specification Labels—



AEP model: AC: 220−230V~50/60Hz
UK AUS model: AC: 240V~50/60Hz
E, EA model: AC: 110−120, 220−240V~ 50/60Hz 12W

AUS: Australian model
EA: Saudi Arabia Model

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties
   - Material: GaAlAs
   - Wavelength: 780 nm
   - Emission Duration: continuous
   - Laser Output: max. 44.6 μW*

     * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optiocal Pick-up Block (including APC borad).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-didoe data
   - Materiale: GaAlAs
   - Bølgelængde: 780 nm
   - Udstråling: Kontinuerlig
   - Laseroutput: Max. 0,4 mW*

     * Målt i 1,6 mm afstand fra overfladen af objektivlinsen pa den optiske pick-up enhed.

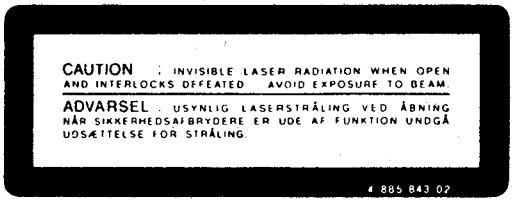
   - Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

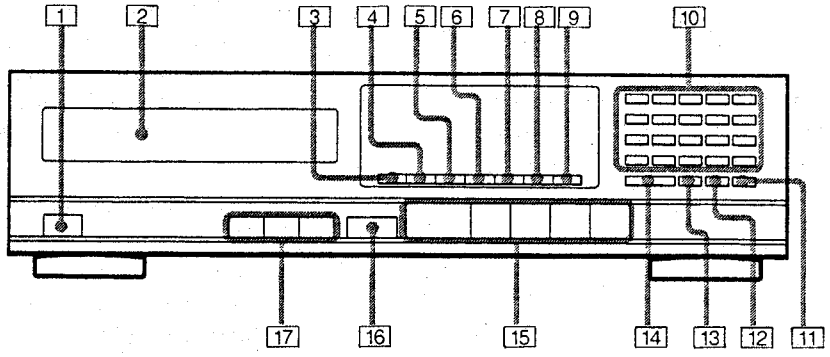
1. Advarsel Mærkning


CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING.
4 885 843 02

VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkymätöntä) silmille vaarallista lasersateilyä.

SECTION 1
GENERAL

Location of Controls



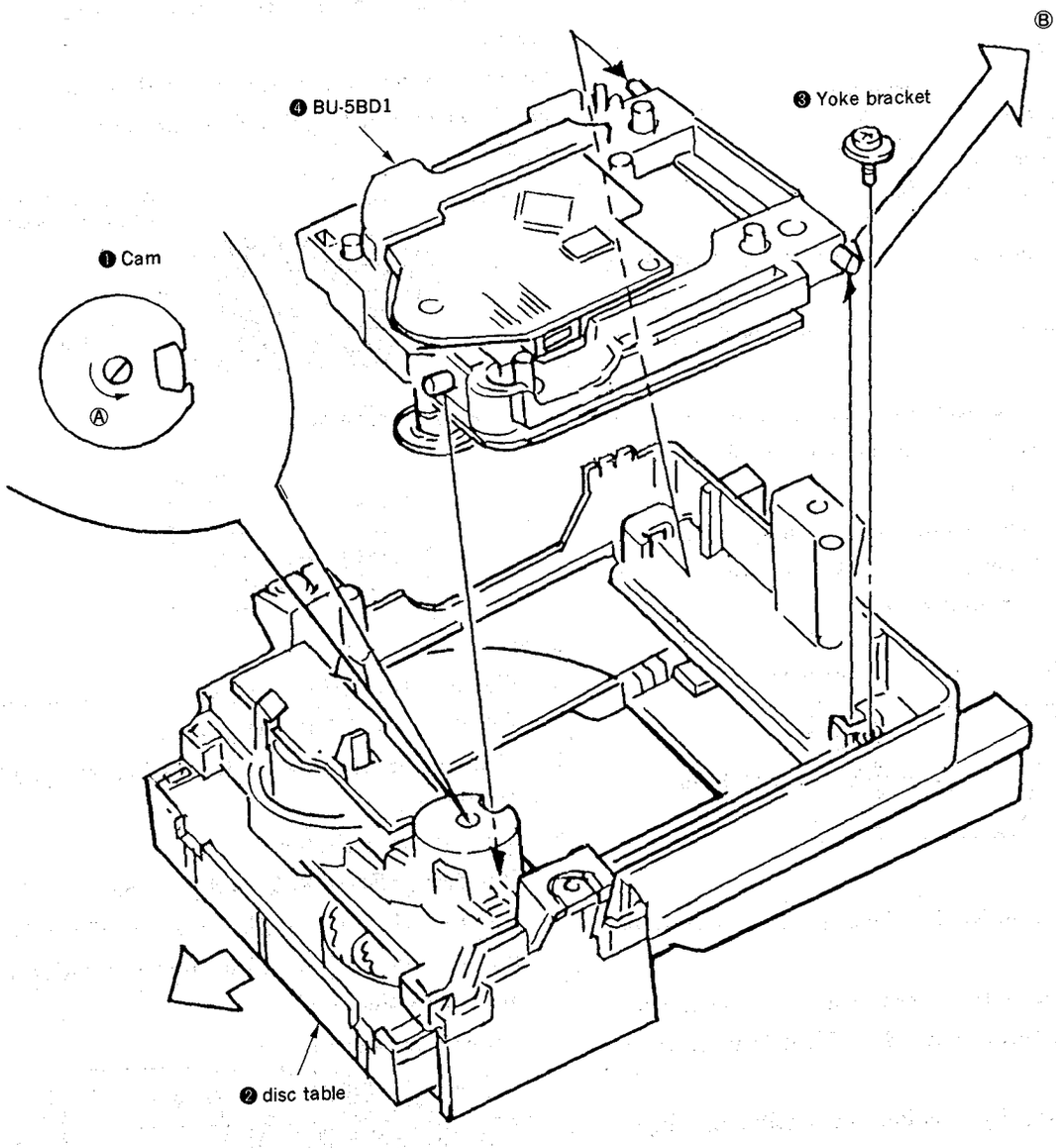
1 POWER switch
2 Display window
3 TIME button
4 AUTO SPACE button
5 REPEAT button
6 PEAK SEARCH button
7 FADER button
8 EDIT/TIME FADE button
9 TIME SET button
10 Numeric buttons
11 > 20 (over 20) button
12 CLEAR button
13 CHECK button
14 MUSIC SCAN button
15 CD operation buttons
⏮ ⏭/◀◀ ▶▶ AMS*/RMS**/manual search, ■ stop,
❚❚ pause, ▶ play
16 ⏏ OPEN/CLOSE button
17 Play mode buttons
CONTINUE, SHUFFLE, PROGRAM

SECTION 2
DISASSEMBLY

BASE UNIT REMOVAL
(BU-5BD1)

Note : Follow the disassembly procedure in the numerical order given.

1. Remove CD mechanism from the set and turn over.
2. Turn the cam ❶ in the Arrow Ⓐ direction by the ⊖ driver.
3. Take out disc table. ❷.
4. Remove yoke bracket ❸.
5. Remove BU-5BD1 ❹ in the Arrow Ⓑ direction.

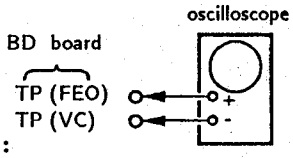


SECTION 3
ELECTRICAL ADJUSTMENT

Note :

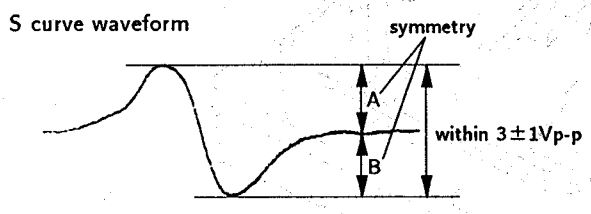
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

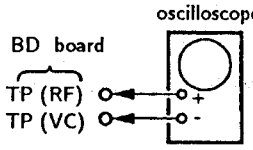


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

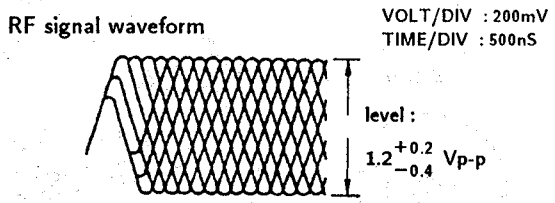


Procedure :

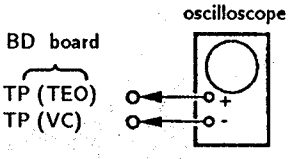
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

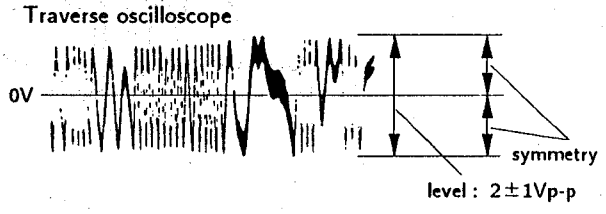


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

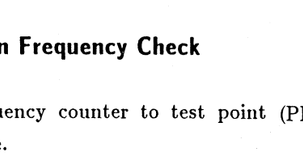


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PLCK) with lead wire.

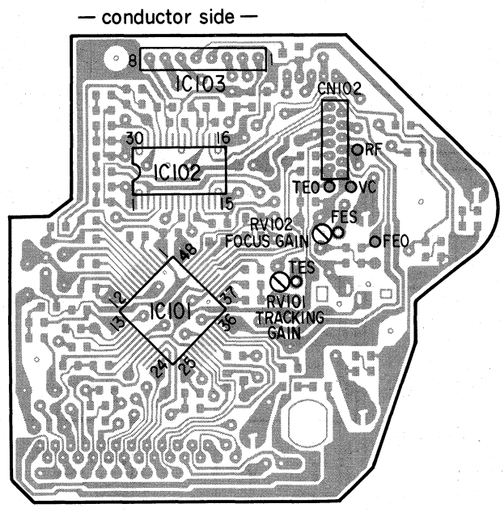


2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4. 3218MHz.

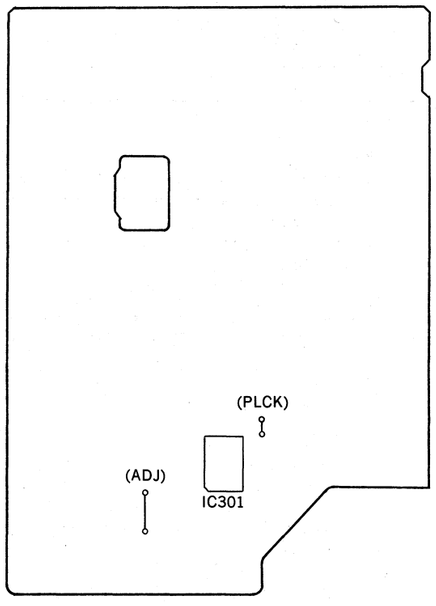
Focus/Tracking Gain

This gain has a margin, so even if it is slightly off. There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Locations :
[BD board]



Main board (Componet Side)



SECT
PIN DES

4-1. Description on IC101 (CXA1372Q)

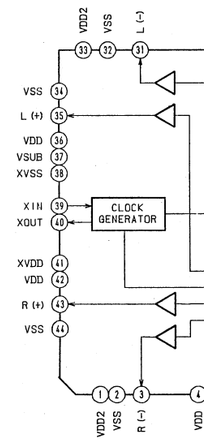
Pin No.	Pin Name	I/O	
1	VC		GND when two (±) dual pow a single power supply is in u
2	FGD	I	Time constants for gain switc
3	FS3	I	connected between the FGD a
4	FLB	I	The capacitor for low frequer
5	FEO	O	Focus drive output
6	FE−	I	Inverted input to focus ampli
7	SRCH	I	Time constants to generate t
8	TGU	I	Time constants for gain switc
9	TG2	I	connected between TGU pin
10	AVCC		Analog power supply (5 V w power supply is in use.)
11	TAO	O	Tracking drive output
12	TA−	I	Inverted input to tracking
13	SL +	I	Non-inverted input to sled a
14	SLO	O	Sled drive output
15	SL −	I	Non-inverted input to sled a
16	ESET	I	The 610-k Ω phase compensa
17	ISET	I	The current setting resistor i
18	SSTOP	I	The limit switch is connected
19	AVEE		Analog power supply (− 5V single power supply is in use
20	DIRC	I	Direct control pin.
21	LOCK	I	Sled run-away prevention cir
22	CLK	I	Serial data transfer clock inp
23	XLT	I	Latch input from CPU (or D
24	DATA	I	Serial data input from CPU (
25	XRST	I	System reset. "L" to reset.
26	C.OUT	O	Output to tracking counter.
27	SENS	O	SENS output
28	DGND		Digital ground (GND). (GND power supply is in use.)
29	MIRR	O	Mirror output.
30	DFCT	O	Defect output. "H" when d
31	ASY	I	Auto-assymmetry control inp
32	EFM	O	EFM comparator output.

SECTION 4
PIN DESCRIPTION

Pin Description
o (±) dual power supplies are in use, or the center voltage (2.5 V) when r supply is in use.
s for gain switching in normal mode/down mode and for focus gain are ween the FGD and FS3 pins.
for low frequency boost in the focus servo loop is connected.
utput
to focus amplifier
s to generate the focus search waveform are connected.
s for gain switching in normal mode/up mode and for tracking gain are ween TGU pin and TG2 pin.
supply (5 V when ± dual power supplies are in use, 5 V when a single is in use.)
ve output
ut to tracking amplifier
input to sled amplifier
tput
input to sled amplifier
phase compensator resistor is connected to this pin.
etting resistor is connected to this pin.
tch is connected to this pin.
supply (−5V when ± dual power supplies are in use, or GND when a supply is in use.)
pin.
y prevention circuit operates when this signal is "L".
ansfer clock input that is supplied from CPU (or DSP).
rom CPU (or DSP).
put from CPU (or DSP).
"L" to reset.
cking counter.
(GND). (GND when ± dual power supplies are in use. GND when a single is in use.)
"H" when defective.
etry control input.
tor output.

Pin No.	Pin Name	I/O	Pin Description
33	FOK	O	Focus OK.
34	CC2	I	Defect-bottom-hold input (input by capacitive coupling).
35	CC1	O	Defect-bottom-hold output.
36	DVCC		Digital power supply (+5 V when ± dual power supplies in use. +5 V when a single power supply is in use.)
37	CB	I	The defect-bottom-hold capacitor is connected to this pin.
38	CP	I	The mirror hold capacitor is connected to this pin.
39	RF1	I	RF signal input (input by capacitive coupling).
40	RF0	I	RF signal input (input by DC coupling).
41	DVEE		Digital power supply (−5 V when ± dual power supplis are in use. GND when a single power supply is in use.)
42	TZC	I	Tracking zero cross comparator input.
43	TE	I	Tracking error input.
44	TDFCT	I	The defect prevention hold capacitor is connected to this pin.
45	ATSC	I	Anti-shock input.
46	FZC	I	Focus zero-cross comparator input.
47	FE	I	Focus error input.
48	FDFCT	I	The defect prevention hold capacitor is connected to this pin.

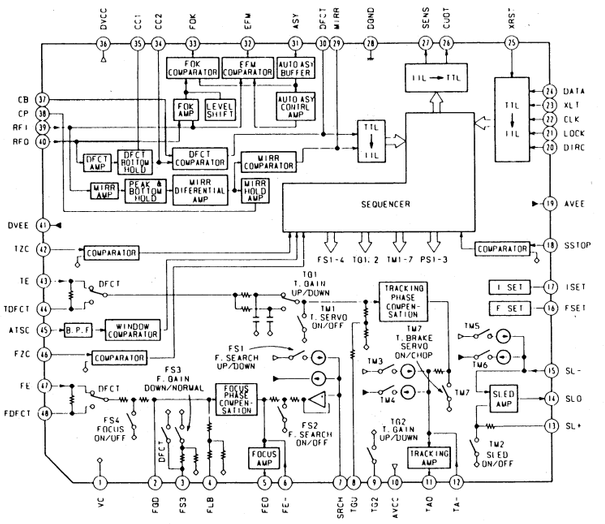
IC305 CXD25



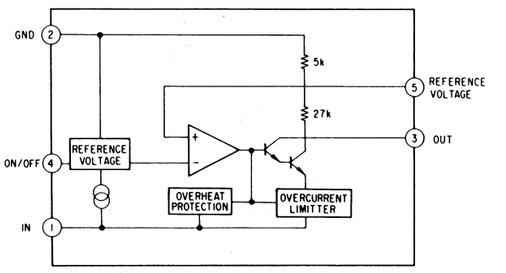
SECTION 5
DIAGRAMS

• IC Block Diagrams

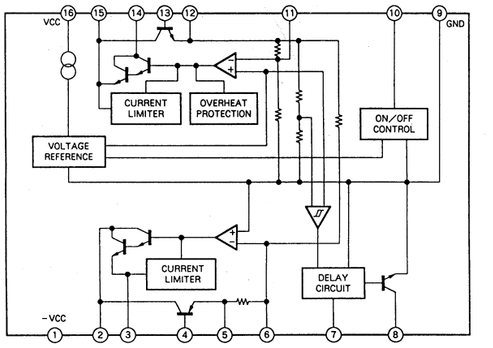
IC101 CXA1372Q



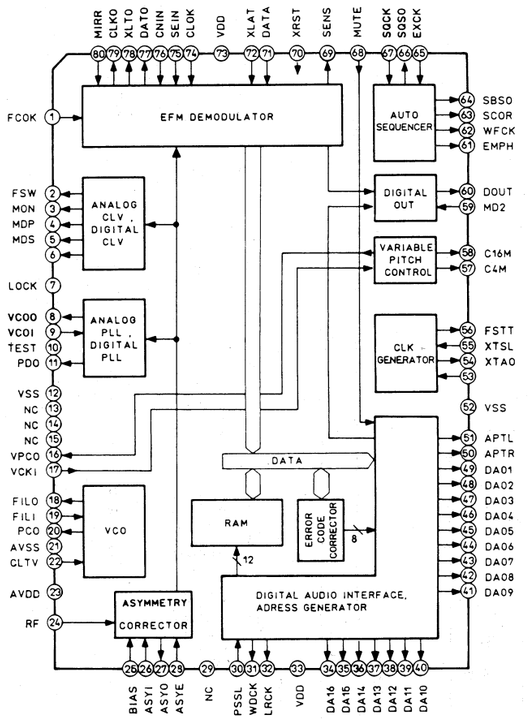
IC201 M5293L



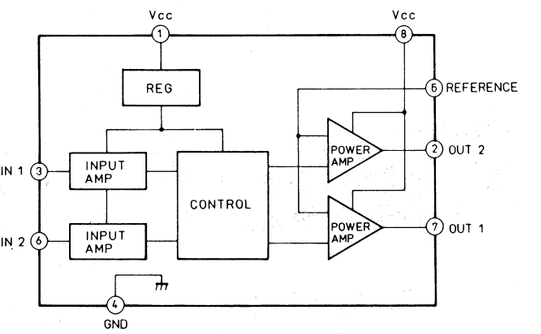
IC202 M5290P



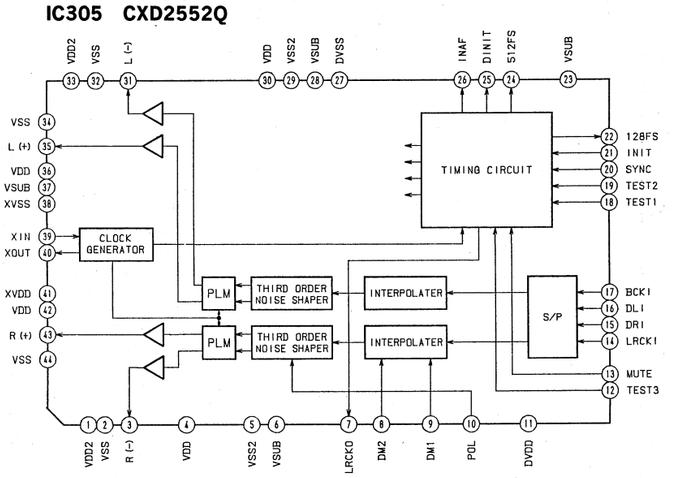
IC301 CXD2500AQ



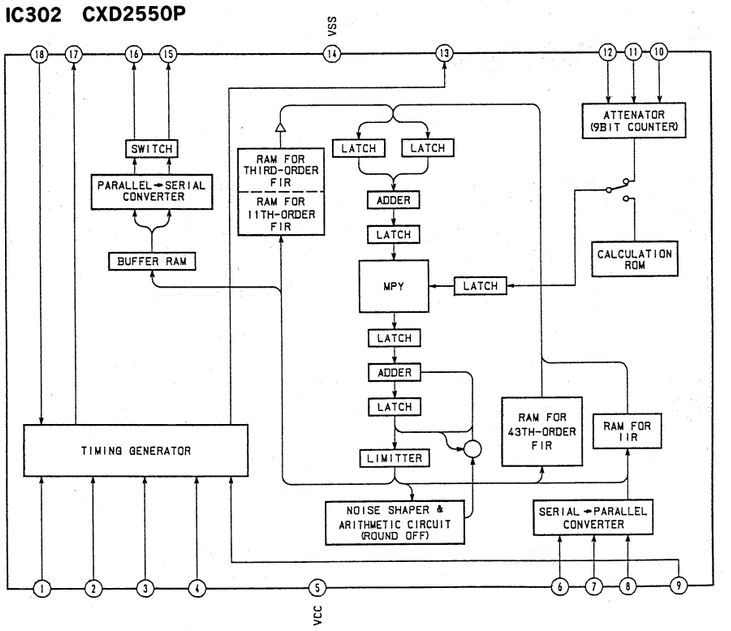
IC103 M54641L



IC305 CXD2552Q



IC302 CXD2550P

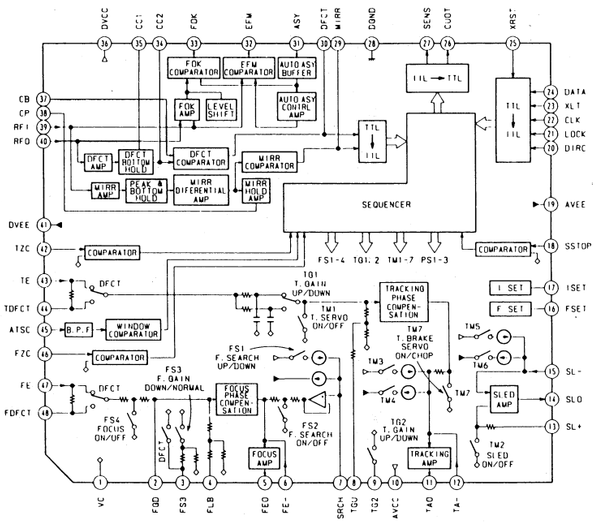


Pin Description
input by capacitive coupling).
when ± dual power supplies in use. +5 V when a single
pacitor is connected to this pin.
is connected to this pin.
capacitive coupling).
DC coupling).
when ± dual power supplis are in use. GND when a single
rator input.
capacitor is connected to this pin.
r input.
capacitor is connected to this pin.

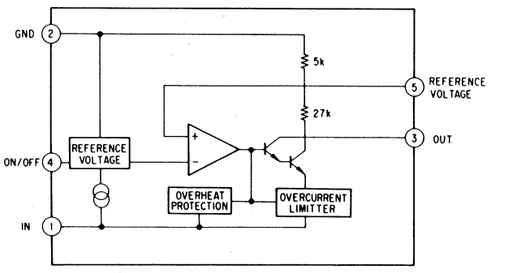
SECTION 5
DIAGRAMS

• IC Block Diagrams

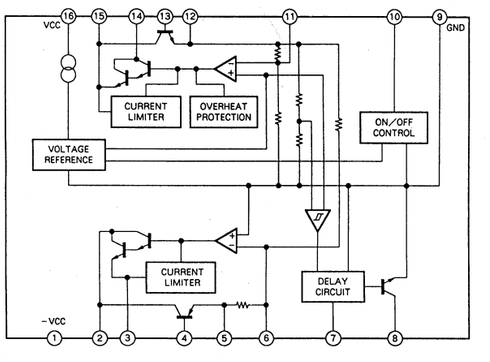
IC101 CXA1372Q



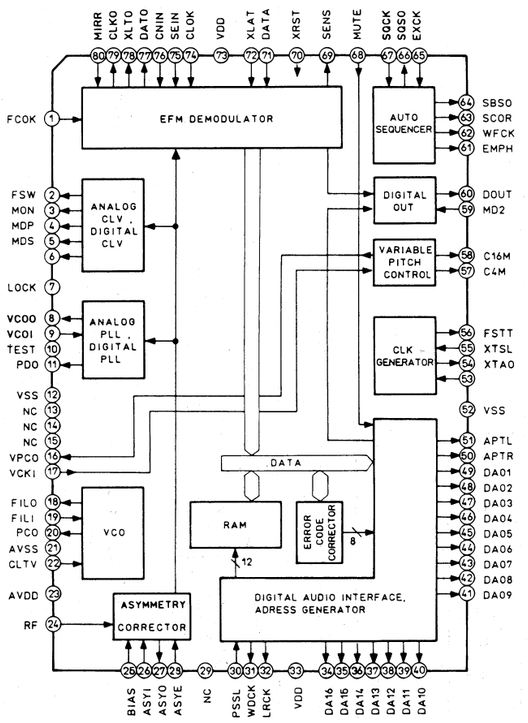
IC201 M5293L



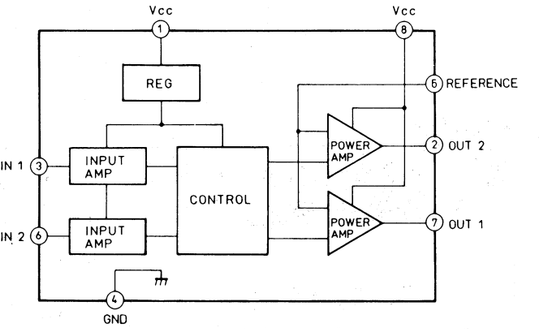
IC202 M5290P



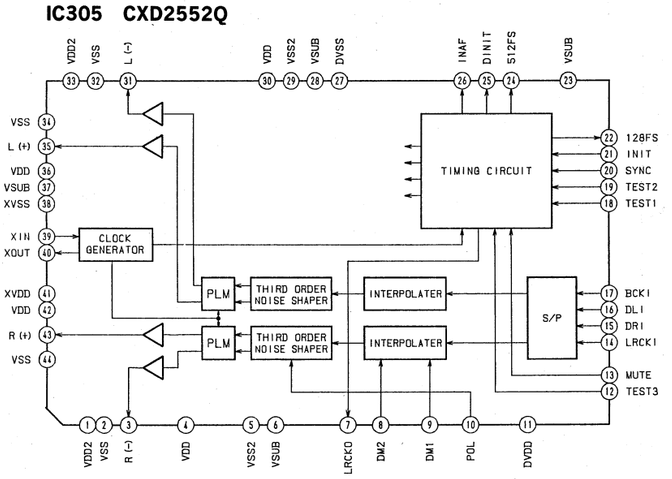
IC301 CXD2500AQ



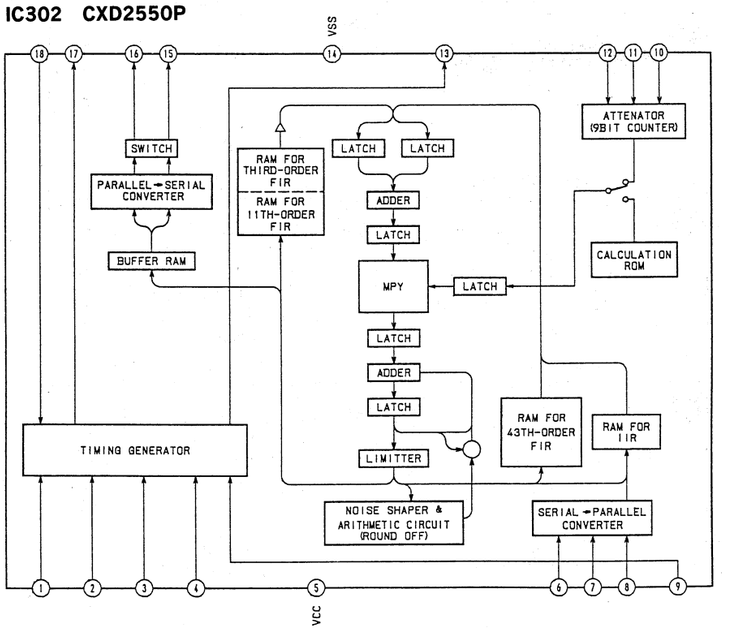
IC103 M54641L



IC305 CXD2552Q



IC302 CXD2550P



Pin Description
(input by capacitive coupling).
.
V when ± dual power supplies in use. +5 V when a single
apacitor is connected to this pin.
is connected to this pin.
capacitive coupling).
DC coupling).
V when ± dual power supplis are in use. GND when a single
rator input.
capacitor is connected to this pin.
or input.
capacitor is connected to this pin.

5-1. SCHEMATIC DIAGRAM

● Refer to page 10 for IC Block Diagrams

● **Waveforms**

1 1.3Vp-p
TP(RF O) : PLAY mode
(IC101 (40))

2 2.5V
APPROX. 500mVp-p
TP (FEO): PLAY mode

3 2.5V
APPROX. 100mVp-p
TP (TEO): PLAY mode

4 8.2Vp-p
4MHz
IC401 (30)

5 4.1Vp-p
4MHz
IC401 (31)

6 2Vp-p
7.6µsec
IC301 (4)

7 4.2Vp-p
23µsec
IC301 (32)

8 4.2Vp-p
0.48µsec
IC301 (35)

9 0.32Vp-p
45MHz
IC305 (39)

10 0.75Vp-p
45 MHz
IC305 (40)

【BD BOARD】

CN101 22P
22 LDON
21 LODIN
20 LODOUT
19 INSW
18 OUTSW
17 FOK
16 MIRR
15 CLK
14 XLT
13 DATA
12 CNIN
11 SENS
10 XRST
9 DFTSW
8 MDP
7 LOCK
6 +5V
5 GND
4 ASY
3 EFM
2 GND
1 +7V

【DISPLAY BOARD】

IC401
SYSTEM CONTROL

TRACK STEP INDEX PEAK MIN DISC SEC
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
SHUFFLE PROGRAM(MULTI)
AUTOSPACE REPEAT 1 A-B
EDIT A—B
TIME FADE

FL401
FLUORESCENT INDICATOR TUBE

IC401 #PD75216 ACW-B16
VDD E F G H I J VPRE VLOD K L M N O P 1G 2G 3G 4G 5G 6G 7G 8G RESET INSW OUTSW LOADIN LOADOUT XT2 XT1
D RESET C B A SCOR CLK DATA TIMER SIRCS/BSIN ADJ SENSE AFADJ FOK GFS SUBQ SQCK XLT PRGL LDON K0 K1 K2 K3 VLDOUN LED/BSOUT MUTE DFCTSW X1 X2 VSS

D412 UZL-9M2-TP
R408 68k
X401 4MHz
R401 33k
R402 33k
R403 33k
C401 47µ
C403 22000p
C402 22
R406 4.
R407 4.7k
C404 22000p

K0 K1 K2 K3

D402 1SS120 S405 S406 S407 S408 — CONTINUE
D403 1SS120 S409 S410 S411 S412 — EDIT/TIME FADE, TIME SET, SHUFFLE
D404 1SS120 S413 S414 S415 S416 — PROGRAM
D405 1SS120 S417 S418 S419 S420 — MUSIC SCAN
D406 1SS120 S421 S422 S423 S424
D407 1SS120 S425 S426 S427 S428
D408 1SS120 S429 S430 S431 S432
D409 1SS120 S433 S434 S435 S436
D410 1SS120 S437 S438 S439 S440
D411 1SS120 S444 S441 S442 S443 — AUTO SPACE, OPEN/CLOSE

【BD BOARD】

OPTICAL PICK UP BLOCK KSS-240A

CN102 12P
VC
TE
FE
FZC
RFO
GND
VCC
LDON
F+
T+
T-
F-

TE FE
VC FZC
VR FA+
F- FA-
FO FBO
EO RFO
DO RF-
CO VREF
BO FB
AO GND
PD LDON
LD VCC

M52103FP

M102 SPINDLE MOTOR
M101 SLED MOTOR

R171 10 C171 0.1
R172 10 C172 0.1
R173 10 C173 0.1
C174 0.1
R174 10
S101 LIMIT SW

CN101 22P
22 LDON
21 LODIN
20 LODOUT
19 INSW
18 OUTSW
17 FOK
16 MIRR
15 CLK
14 XLT
13 DATA
12 CNIN
11 SENS
10 XRST
9 DFTSW
8 MDP
7 LOCK
6 +5V
5 GND
4 ASY
3 EFM
2 GND
1 +7V

IC101
CXA1372Q
FOCUS/TRACKING SLED SERVO EFM COMPARATOR

TRACKING GAIN
FOCUS GAIN

IC102
FOCUS/TRACKING COIL DRIVE
SPINDLE/SLED MOTOR DRIVE
IC102 LA6532M

IC103
LOADING MOTOR DRIVE
IC103 M54641L

D101 RD4.7M-T1B1
Q101 DTC144EK SWITCH

【LOADING BOARD】
CN103 5P
OUTSW
GND
INSW
LOAD
LOAD
CN301
S191 OUT SW
S192 IN SW
LOADING MOTOR M191

IC202
+/- 5V REG

Q204-206
B+ SWITCH

Q202, REG

【MAIN BOARD】
CN302 22P
LDON LODIN LODOUT INSW OUTSW FOK MIRR CLKO XLTO DATO CNIN SENS XRST DFCTSW MDP LOCK +5V GND ASY EFM GND +7V

IC303
OSC/SHARPER
IC303 TC74HCU04AP

IC302 CXD2554

IC302
DIGITAL FILTER

IC301
IC301 CXD2500AQ
DIGITAL SIGNAL PROCESSOR

X401 4MHz

CN401 29P
SCOR CLK DATA BSIN ADJ SENS AFADJ FOK GFS SUBQ SQCK XLT PRGL LDON BSOUT MUTE DFCTSW GND +5V -30V RST INSW OUTSW LOADIN LOADOUT F SW F SIRCS F F SW +5V GND

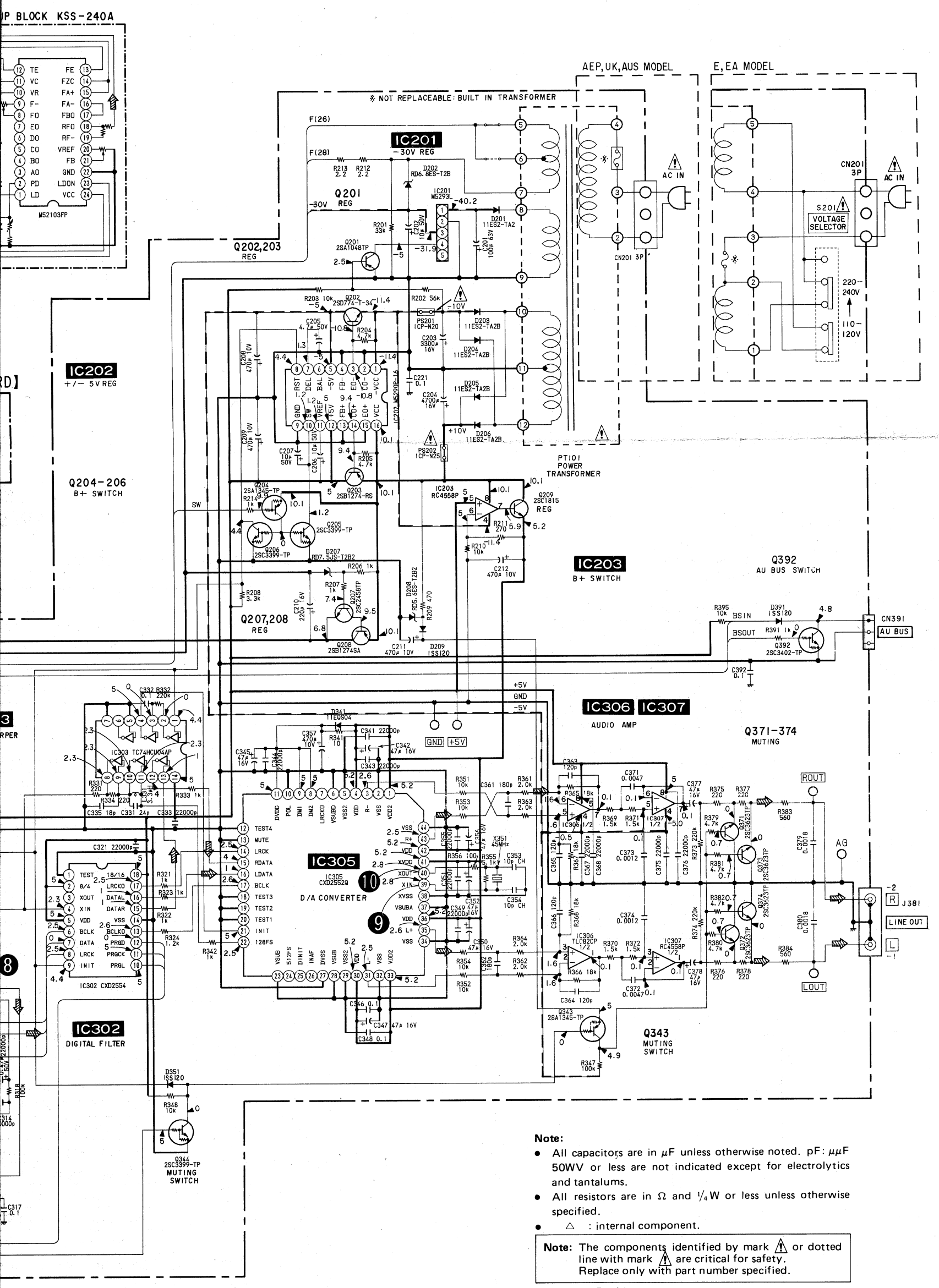
CN402 6P AMP

CN301 29P
SCOR CLK R301 1k DATA R302 1k BSIN ADJ SENS AFADJ FOK GFS SUBQ SQCK XLT R303 2.2k PRGL R304 1k LDON BSOUT MUTE DFCTSW GND +5V -30V RST INSW OUTSW LOADIN LOADOUT F SW F

DATA
CLK
PRG CK
PRG D
MUTE
MDP

CONTINUE S407 S408
SHUFFLE S411 S412
PROGRAM S415 S416
MUSIC SCAN S419 S420
S423 S424
S427 S428
S431 S432
S435 S436
S439 S440
OPEN/CLOSE S442 S443

[POWER SWITCH BOARD]
CN404
F
F
SW
GND
S501 POWER
ON
OFF



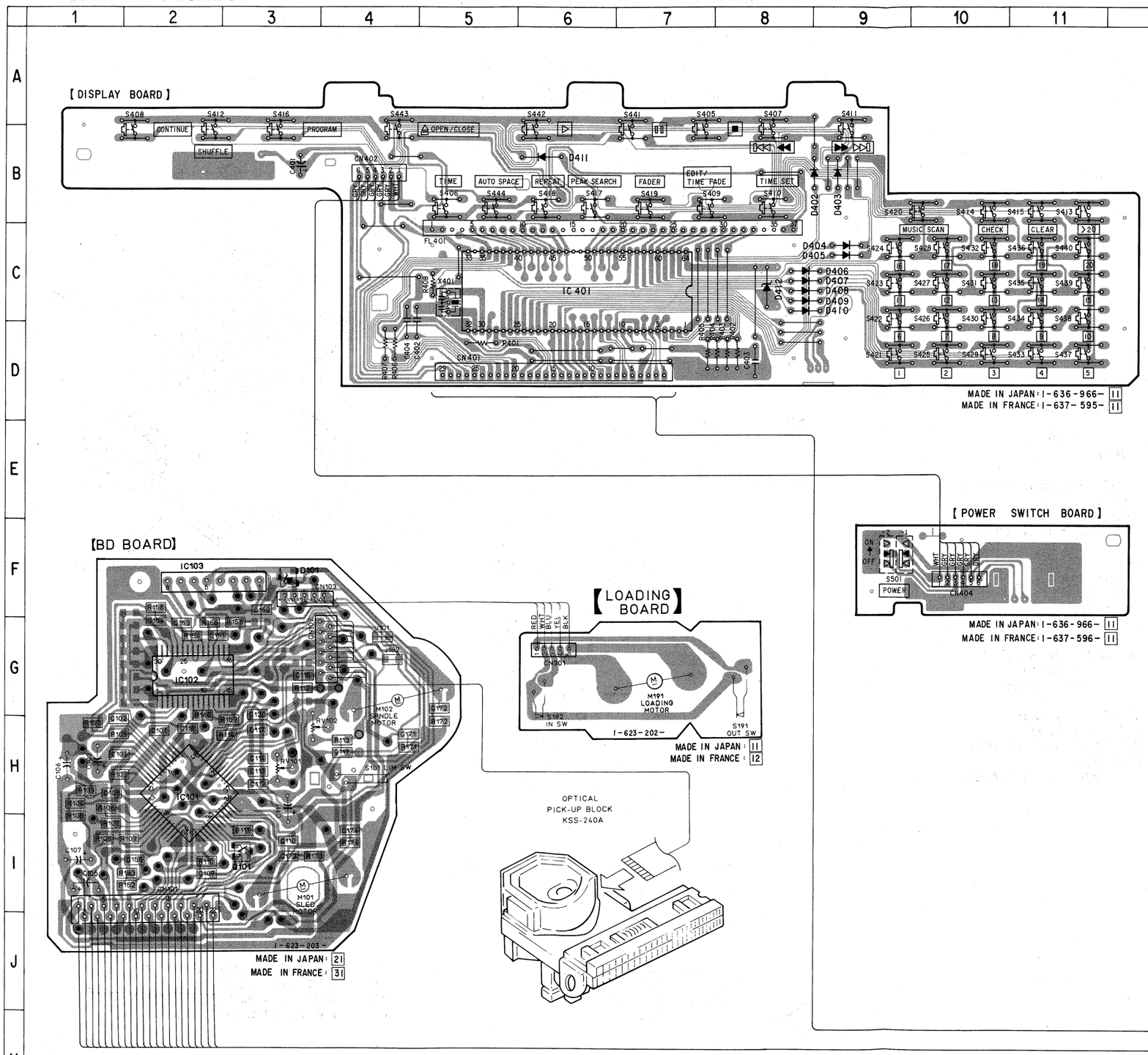
Note:

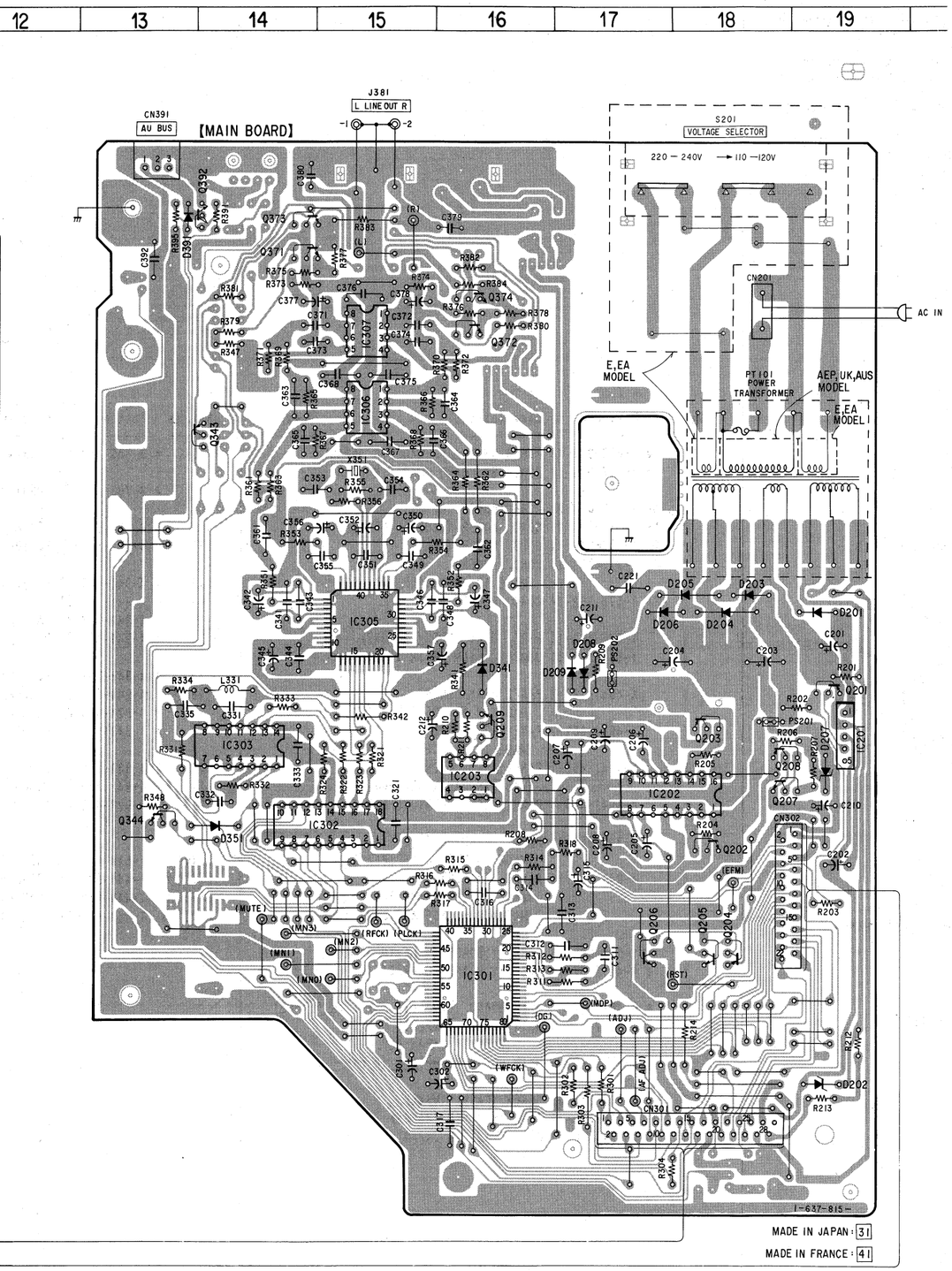
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$W or less unless otherwise specified.
- △ : internal component.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line
- ▬ ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
- AUS: Australian model
- EA: Saudi Arabia Model

5-2. PRINTED WIRING BOARDS





• Semiconductor Location

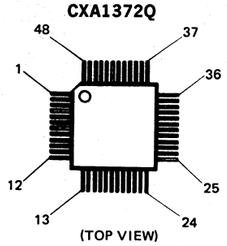
Ref. No.	Location
D101	F-3
D201	E-19
D202	I-19
D203	E-18
D204	E-18
D205	E-18
D206	F-17
D207	G-19
D208	F-17
D209	F-17
D341	F-16
D351	H-14
D391	B-13
D402	B-9
D403	B-9
D404	C-9
D405	C-9
D406	C-8
D407	C-8
D408	C-8
D409	C-8
D410	C-8
D411	B-6
D412	C-8
IC101	H-2
IC102	G-2
IC103	F-2
IC201	F-19
IC202	G-17
IC203	G-16
IC301	H-16
IC302	G-15
IC303	F-14
IC305	E-15
IC306	D-15
IC307	C-15
IC401	C-6
Q101	I-3
Q201	F-19
Q202	G-18
Q203	F-18
Q204	H-18
Q205	H-18
Q206	H-17
Q207	G-18
Q208	G-18
Q209	F-16
Q343	D-14
Q344	H-13
Q371	B-14
Q372	C-16
Q373	B-14
Q374	C-16
Q392	B-14

Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- AUS : Australian model
- EA : Saudi Arabia Model

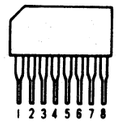
5-3. SEMICONDUCTOR LEAD LAYOUTS

CXA1372Q

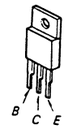


(TOP VIEW)

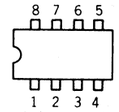
M54641L



2SB1094-L
2SB1274SA-RS



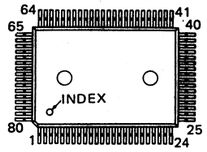
RC4558P
TL082CP



(TOP VIEW)

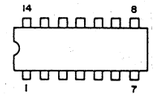
2SC1815-Y

CXD2500AQ



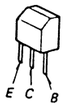
MARKING SIDE VIEW

SN74HCU04AN

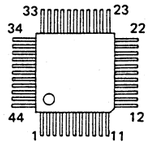


(TOP VIEW)

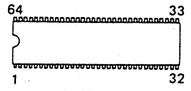
2SD774-34



CXD2552Q

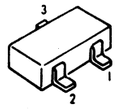


μPD75216ACW-B16

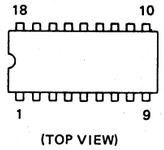


(TOP VIEW)

RD4.7M-B1

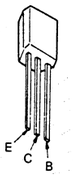


CXD2554P

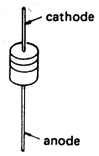


(TOP VIEW)

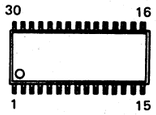
DTA144ES
DTC144EK
2SC2458-YGR
2SC3623A-LK



RD5.6ES-B2
RD6.8ES-B2
RD7.5JS-B2
UZL-9M2
1SS120
11EQS04
11ES2

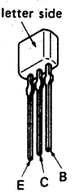


LA6532M

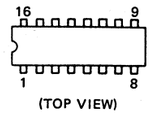


(TOP VIEW)

2SA1175-HFE

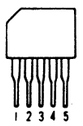


M5290P-16



(TOP VIEW)

M5293L



SECTION 6
EXPLODED VIEWS

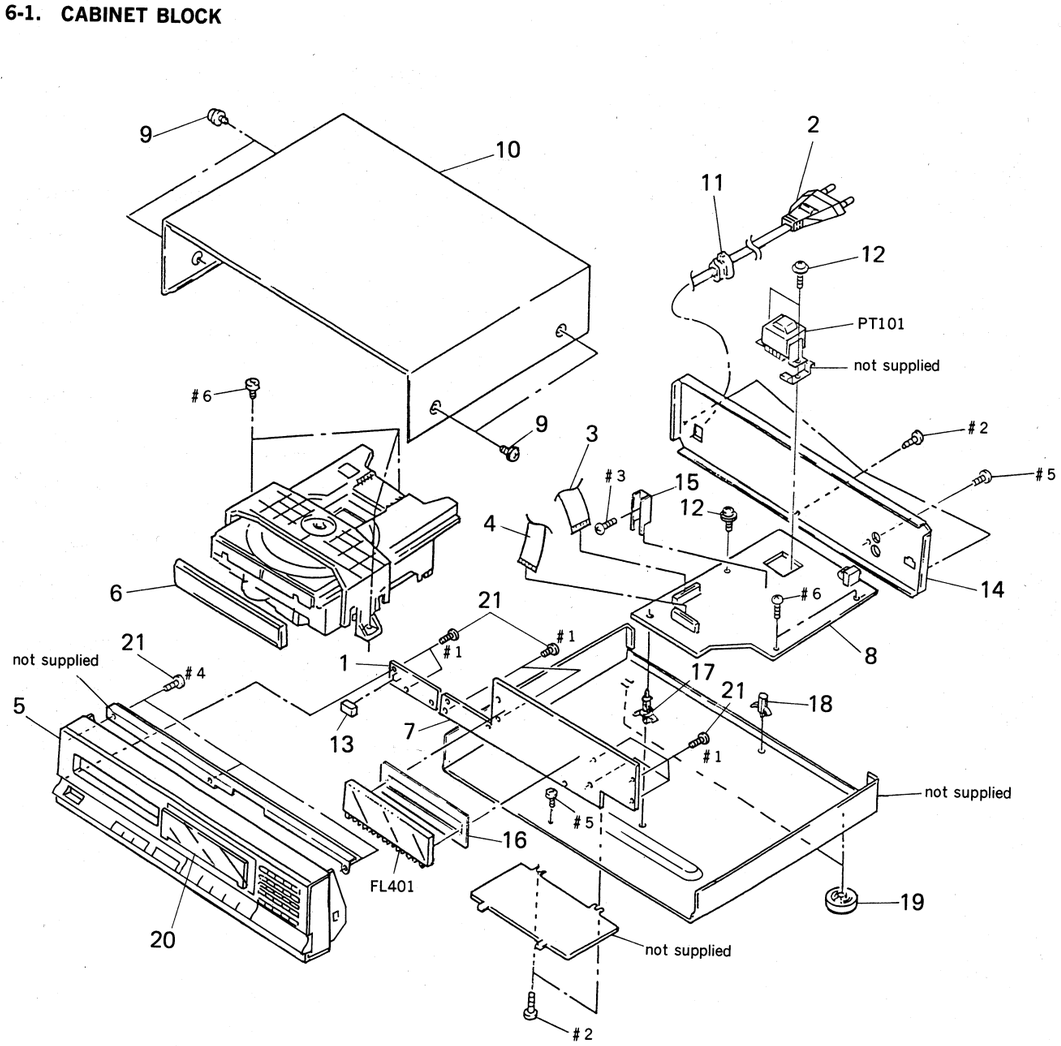
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware(# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- AUS: Australian model
- EA: Saudi Arabia Model

6-1. CABINET BLOCK

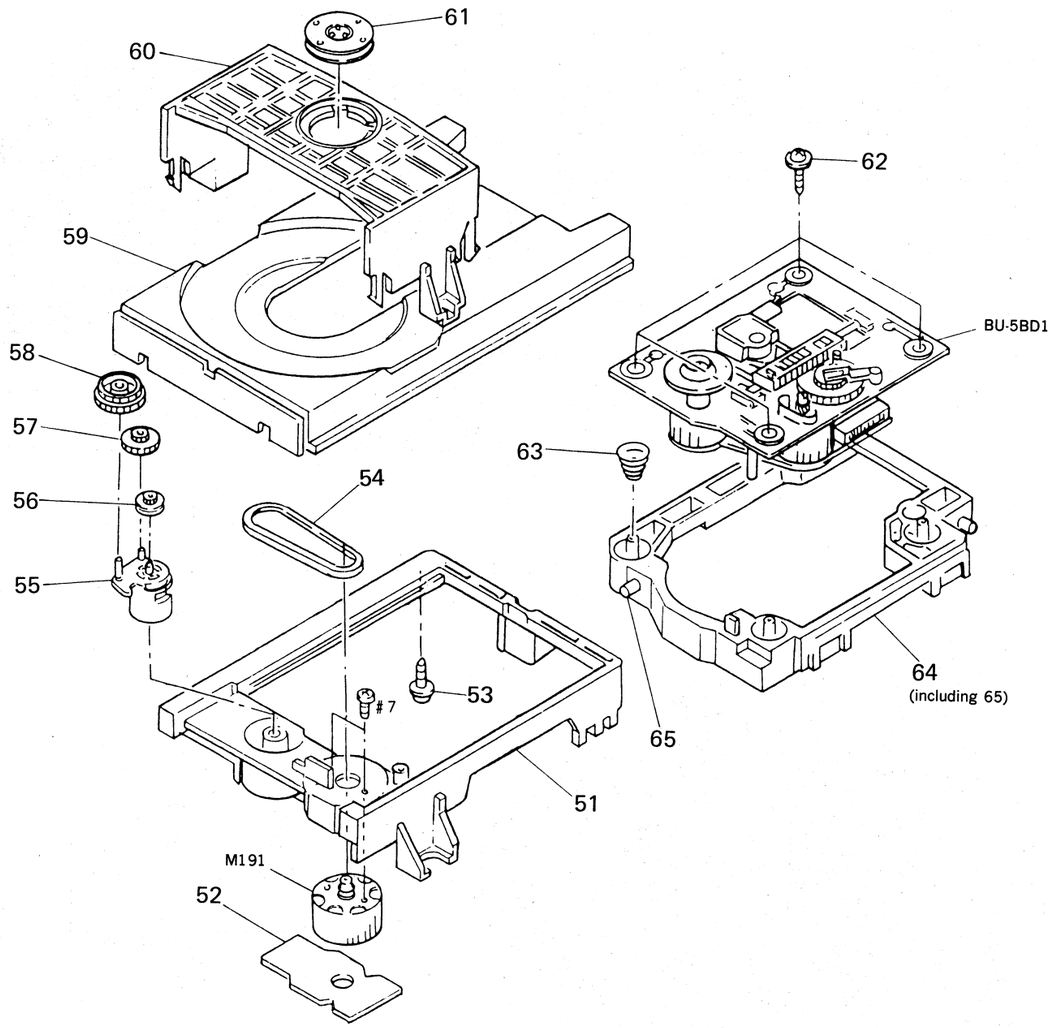


Ref. No.	Part No.	Description	Remark
1	* 1-636-967-11	POWER SW BOARD (MADE IN JAPAN)	
1	* 1-637-596-11	POWER SW BOARD (MADE IN FRANCE)	
2	⚠ 1-575-653-21	CORD, POWER (E)	
2	⚠ 1-574-127-31	CORD, POWER (MADE IN FRANCE:AEP)	
2	⚠ 1-590-379-11	CORD, POWER (UK)	
2	⚠ 1-575-651-21	CORD, POWER (MADE IN JAPAN:AEP, EA)	
2	⚠ 1-574-358-31	CORD, POWER (AUS)	
3	1-575-160-11	WIRE, FLAT TYPE (22 CORE)	
4	1-535-871-11	JUMPER, FILM (WITH TERMINAL)	
5	X-4941-368-2	PANEL ASSY, FRONT (MADE IN FRANCE:AEP:BLACK)	
5	X-4941-369-2	PANEL ASSY, FRONT (MADE IN FRANCE:AEP:GRAY, UK)	
5	X-4941-465-1	PANEL ASSY, FRONT (MADE IN JAPAN:AEP, AUS)	
5	X-4941-466-1	PANEL ASSY, FRONT (E, EA)	
6	4-941-980-01	PANEL, LOADING (E, EA) (MADE IN FRANCE:AEP:BLACK)	
6	4-941-980-21	PANEL, LOADING (MADE IN JAPAN:AEP, AUS) (MADE IN FRANCE:AEP, GRAY, UK)	
7	* 1-636-966-11	DISPLAY BOARD (MADE IN JAPAN)	
7	* A-4617-673-A	DISPLAY BOARD, COMPLETE (MADE IN FRANCE)	
8	* A-4617-671-A	MAIN BOARD, COMPLETE (MADE IN FRANCE)	
8	* A-4617-740-A	MAIN BOARD, COMPLETE (MADE IN JAPAN:AEP, AUS)	
8	* A-4617-852-A	MAIN BOARD, COMPLETE (E, EA)	
9	3-704-366-01	SCREW (CASE) (M3X8)	
10	4-919-376-31	CASE (MADE IN FRANCE)	
10	* 4-939-802-71	CASE (MADE IN JAPAN)	
11	* 3-703-244-00	BU	
11	* 3-703-571-11	BU	
12	4-886-821-11	SC	
13	4-941-982-01	BU	
14	* 4-941-467-11	PA	
14	* 4-941-552-71	PA	
14	* 4-941-552-81	PA	
14	* 4-941-552-61	PA	
15	* 4-941-237-01	HE	
16	4-941-981-01	HO	
17	* 4-924-098-31	HO	
18	* 3-349-025-41	HO	
19	* 4-931-169-01	FO	
20	4-942-330-02	WI	
21	4-928-635-01	SC	
FL401	1-519-618-11	IND	
PT101 ⚠	1-449-923-11	TRA	
PT101 ⚠	1-449-925-11	TRA	
PT101 ⚠	1-449-922-11	TRA	

ion	Remark
/ BOARD (MADE IN JAPAN)	
/ BOARD (MADE IN FRANCE)	
WER (E)	
WER (MADE IN FRANCE:AEP)	
WER (UK)	
WER	
N JAPAN:AEP, EA)	
WER (AUS)	
AT TYPE (22 CORE)	
FILM (WITH TERMINAL)	
SY, FRONT	
N FRANCE:AEP:BLACK)	
SY, FRONT	
N FRANCE:AEP:GRAY, UK)	
SY, FRONT	
N JAPAN:AEP, AUS)	
SY, FRONT (E, EA)	
OADING (E, EA)	
N FRANCE:AEP:BLACK)	
OADING	
N JAPAN:AEP, AUS)	
N FRANCE:AEP, GRAY, UK)	
BOARD (MADE IN JAPAN)	
BOARD, COMPLETE (MADE IN FRANCE)	
RD, COMPLETE (MADE IN FRANCE)	
RD, COMPLETE	
E IN JAPAN:AEP, AUS)	
RD, COMPLETE (E, EA)	
ASE) (M3X8)	
DE IN FRANCE)	
DE IN JAPAN)	

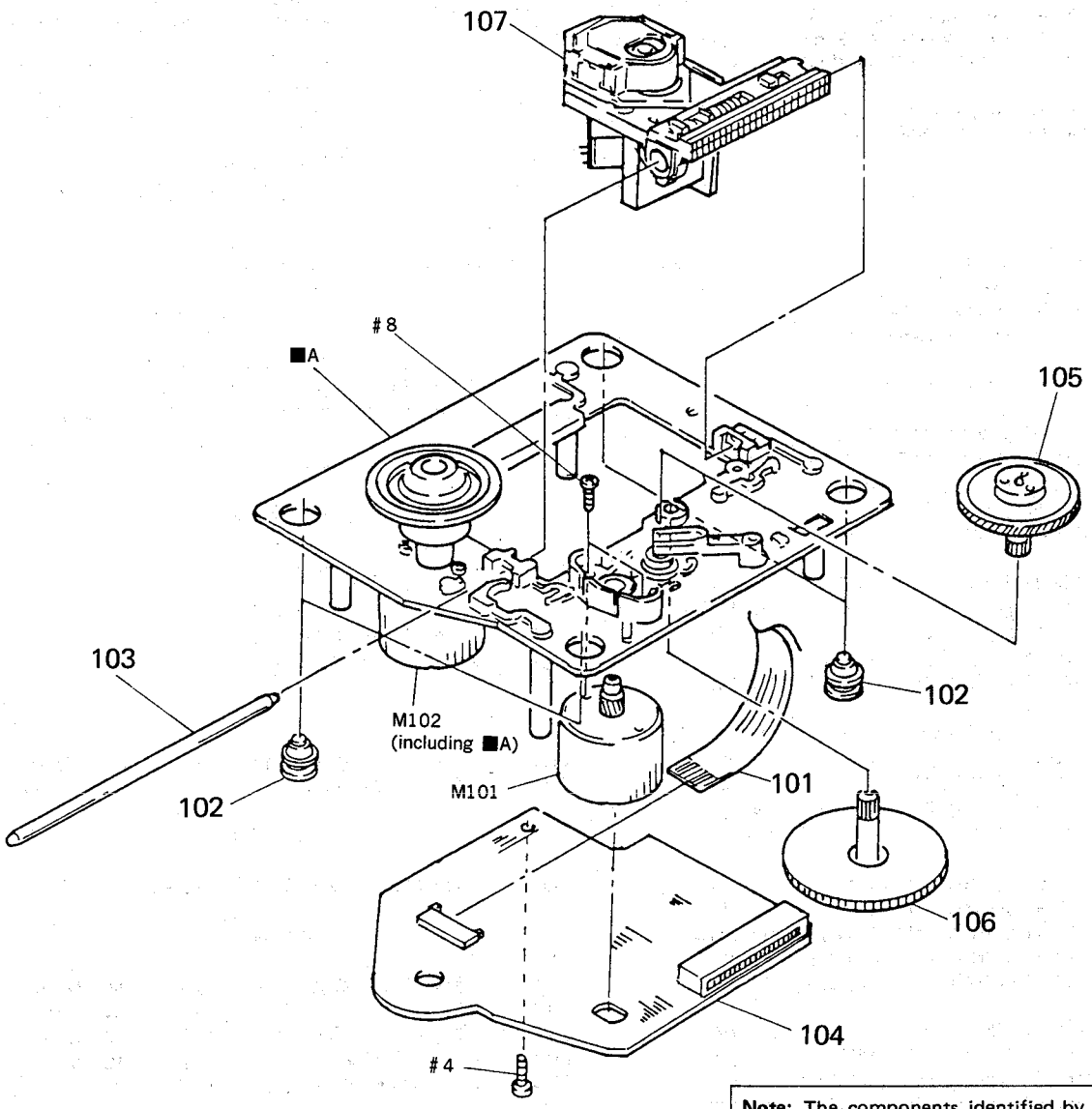
Ref. No.	Part No.	Description	Remark
11	* 3-703-244-00	BUSHING (2104), CORD (AEP, UK, EA, AUS)	
11	* 3-703-571-11	BUSHING (S) (4516), CORD (E)	
12	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
13	4-941-982-01	BUTTON (POWER)	
14	* 4-941-467-11	PANEL (ALSACE), BACK (MADE IN FRANCE)	
14	* 4-941-552-71	PANEL, BACK (E, EA)	
14	* 4-941-552-81	PANEL, BACK (AUS)	
14	* 4-941-552-61	PANEL, BACK (MADE IN JAPAN:AEP)	
15	* 4-941-237-01	HEAT SINK	
16	4-941-981-01	HOLDER, FL TUBE	
17	* 4-924-098-31	HOLDER, PC BOARD	
18	* 3-349-025-41	HOLDER, PC BOARD	
19	* 4-931-169-01	FOOT	
20	4-942-330-02	WINDOW (METER) (MADE IN FRANCE)	
21	4-928-635-01	SCREW, +BV (2.6X8) TAPPING (MADE IN FRANCE)	
FL401	1-519-618-11	INDICATOR TUBE, FLUORESCENT	
PT101 ⚠	1-449-923-11	TRANSFORMER, POWER (E, EA)	
PT101 ⚠	1-449-925-11	TRANSFORMER, POWER (MADE IN FRANCE)	
PT101 ⚠	1-449-922-11	TRANSFORMER, POWER (MADE IN JAPAN:AEP, AUS)	

6-2. CD MECHANISM BLOCK (CDM14-5BD1)



Ref. No.	Part No.	Description	Remark
51	4-933-111-01	CHASSIS (MD)	
52	* 1-632-202-11	LOADING BOARD	
53	* 4-917-583-21	BRACKET, YOKE	
54	4-927-649-01	BELT	
55	4-933-109-01	CAM	
56	4-927-651-01	PULLEY (S)	
57	4-927-628-01	GEAR (C)	
58	4-933-107-01	GEAR (PL)	
59	4-933-112-01	TABLE, DISK	
60	4-933-110-01	HOLDER (MG)	
61	* 1-452-538-11	MAGNET	
62	4-933-134-01	SCREW (+PTPWH M2.6X6)	
63	4-917-541-01	SPRING (B)	
64	4-933-129-01	HOLDER (BU)	
65	4-933-108-01	SHAFT (CAM)	
M191	A-4604-363-A	MOTOR (L) ASSY	

6-3. OPTICAL PICK-UP BLOCK (BU-5BD1)



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.		Part No.	Description	Remark
101		1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
102		4-933-126-01	INSULATOR (A)	
103		4-917-565-01	SHAFT, SLED	
104	*	A-4617-161-A	BD BOARD, COMPLETE	
105		4-917-567-01	GEAR (M)	
106		4-917-564-01	GEAR (P), FLATNESS	
107	⚠	8-848-144-11	DEVICE, OPTICAL KSS-240A	
M101		X-4917-523-3	MOTOR ASSY (SLED)	
M102		X-4917-504-1	MOTOR ASSY (SPINDLE) (MADE IN JAPAN)	

BD

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- CAPACITORS
  uF: μF
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD....

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- AUS: Australian model
- EA: Saudi Arabia Model

Ref. No.	Part No.	Description			Remark
	* A-4617-161-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C102	1-163-989-11	CERAMIC CHIP	0.033uF	10% 25V	
C103	1-126-163-11	ELECT	4.7uF	20% 50V	
C104	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C105	1-126-154-11	ELECT	47uF	20% 6.3V	
C106	1-126-154-11	ELECT	47uF	20% 6.3V	
C107	1-126-154-11	ELECT	47uF	20% 6.3V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C109	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10% 25V	
C111	1-131-367-00	TANTALUM	22uF	10% 20V	
C112	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C113	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C114	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	
C117	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C118	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C119	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	
C120	1-163-989-11	CERAMIC CHIP	0.033uF	10% 25V	
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	10% 50V	
C152	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C153	1-163-006-11	CERAMIC CHIP	560PF	10% 50V	
C154	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	
C155	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V	
C171	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C172	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C173	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C174	1-163-038-00	CERAMIC CHIP	0.1uF	25V	

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
CN103	* 1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D101	8-719-105-72	DIODE RD4.7M-B1			
		< IC >			
IC101	8-752-050-82	IC CXA1372Q			
IC102	8-759-821-94	IC LA6532M			
IC103	8-759-633-65	IC M54641L			
		< JACK >			
J101	1-216-295-00	METAL CHIP	0	5% 1/10W	
J102	1-216-295-00	METAL CHIP	0	5% 1/10W	
		< TRANSISTOR >			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
		< RESISTOR >			
R101	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R102	1-216-095-00	METAL CHIP	82K	5% 1/10W	
R103	1-216-091-00	METAL CHIP	56K	5% 1/10W	
R104	1-216-099-00	METAL CHIP	120K	5% 1/10W	
R105	1-216-069-00	METAL CHIP	6.8K	5% 1/10W	
R106	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R107	1-216-114-00	METAL GLAZE	510K	5% 1/10W	
R108	1-216-105-00	METAL CHIP	220K	5% 1/10W	
R109	1-216-061-00	METAL CHIP	3.3K	5% 1/10W	
R110	1-216-049-00	METAL CHIP	1K	5% 1/10W	

Ref. No.	Part No.	Description			Remark
R111	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R112	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R113	1-216-071-00	METAL CHIP	8.2K	5% 1/10W	
R114	1-216-105-00	METAL CHIP	220K	5% 1/10W	
R152	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R153	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R154	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R155	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R156	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R157	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R158	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R159	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R160	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R171	1-216-001-00	METAL CHIP	10	5% 1/10W	
R172	1-216-001-00	METAL CHIP	10	5% 1/10W	
R173	1-216-001-00	METAL CHIP	10	5% 1/10W	
R174	1-216-001-00	METAL CHIP	10	5% 1/10W	
		< VARIABLE RESISTOR >			
RV101	1-238-016-11	RES, ADJ, CARBON 10K			
RV102	1-238-016-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
*	A-4617-673-A	DISPLAY BOARD, COMPLETE (MADE IN FRANCE)			
*	1-636-966-11	DISPLAY BOARD (MADE IN JAPAN)			
		**********			
	1-535-871-11	JUMPER, FILM (WITH TERMINAL)			
	4-941-981-01	HOLDER, FL TUBE			
		< CAPACITOR >			
C401	1-126-022-11	ELECT	47uF	20% 10V	
C402	1-161-494-00	CERAMIC	0.022uF	25V	
C403	1-161-494-00	CERAMIC	0.022uF	25V	
C404	1-161-494-00	CERAMIC	0.022uF	25V	
		< DIODE >			
D402	8-719-912-20	DIODE 1SS120			
D403	8-719-912-20	DIODE 1SS120			
D404	8-719-912-20	DIODE 1SS120			
D405	8-719-912-20	DIODE 1SS120			
D406	8-719-912-20	DIODE 1SS120			
D407	8-719-912-20	DIODE 1SS120			
D408	8-719-912-20	DIODE 1SS120			
D409	8-719-912-20	DIODE 1SS120			
D410	8-719-912-20	DIODE 1SS120			
D411	8-719-912-20	DIODE 1SS120			
D412	8-719-001-15	DIODE UZL-9M2			
		< FILTER >			
FL401	1-519-618-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC401	8-759-151-90	IC uPD75216ACW-B16			
		< RESISTOR >			
R401	1-249-435-11	CARBON	33K	5% 1/4W	
R402	1-249-435-11	CARBON	33K	5% 1/4W	
R403	1-249-435-11	CARBON	33K	5% 1/4W	
R404	1-249-435-11	CARBON	33K	5% 1/4W	
R405	1-249-435-11	CARBON	33K	5% 1/4W	
R406	1-249-425-11	CARBON	4.7K	5% 1/4W	
R407	1-249-425-11	CARBON	4.7K	5% 1/4W	
R408	1-249-439-11	CARBON	68K	5% 1/4W	
		< SWITCH >			
S405	1-554-303-21	SWITCH, TACTILE (■)			
S406	1-554-303-21	SWITCH, TACTILE (TIME)			
S407	1-554-303-21	SWITCH, TACTILE (⏮ ◀◀)			
S408	1-554-303-21	SWITCH, TACTILE (CONTINUE)			
S409	1-554-303-21	SWITCH, TACTILE (EDIT/TIMEFADE)			
S410	1-554-303-21	SWITCH, TACTILE (TIME SET)			
S411	1-554-303-21	SWITCH, TACTILE (▶▶ ⏭)			
S412	1-554-303-21	SWITCH, TACTILE (SHUFFLE)			
S413	1-554-303-21	SWITCH, TACTILE (>20)			
S414	1-554-303-21	SWITCH, TACTILE (CHECK)			
S415	1-554-303-21	SWITCH, TACTILE (CLEAR)			
S416	1-554-303-21	SWITCH, TACTILE (PROGRAM)			
S417	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)			
S418	1-554-303-21	SWITCH, TACTILE (REPEAT)			
S419	1-554-303-21	SWITCH, TACTILE (FADER)			
S420	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)			
S421	1-554-303-21	SWITCH, TACTILE (1)			
S422	1-554-303-21	SWITCH, TACTILE (6)			
S423	1-554-303-21	SWITCH, TACTILE (11)			
S424	1-554-303-21	SWITCH, TACTILE (16)			
S425	1-554-303-21	SWITCH, TACTILE (2)			
S426	1-554-303-21	SWITCH, TACTILE (7)			
S427	1-554-303-21	SWITCH, TACTILE (12)			
S428	1-554-303-21	SWITCH, TACTILE (17)			
S429	1-554-303-21	SWITCH, TACTILE (3)			

DISPLAY | LOADING | MAIN

Ref. No.	Part No.	Description	Remark
S430	1-554-303-21	SWITCH, TACTILE (8)	
S431	1-554-303-21	SWITCH, TACTILE (13)	
S432	1-554-303-21	SWITCH, TACTILE (18)	
S433	1-554-303-21	SWITCH, TACTILE (4)	
S434	1-554-303-21	SWITCH, TACTILE (9)	
S435	1-554-303-21	SWITCH, TACTILE (14)	
S436	1-554-303-21	SWITCH, TACTILE (19)	
S437	1-554-303-21	SWITCH, TACTILE (5)	
S438	1-554-303-21	SWITCH, TACTILE (10)	
S439	1-554-303-21	SWITCH, TACTILE (15)	
S440	1-554-303-21	SWITCH, TACTILE (20)	
S441	1-554-303-21	SWITCH, TACTILE (■■)	
S442	1-554-303-21	SWITCH, TACTILE (▷)	
S443	1-554-303-21	SWITCH, TACTILE (OPEN/CLOSE)	
S444	1-554-303-21	SWITCH, TACTILE (AUTO SPACE)	
		< CERAMIC >	
X401	1-577-082-11	VIBRATOR, CERAMIC (4MHz)	
**********			
	* 1-632-202-11	LOADING BOARD	
		**********	
		< CONNECTOR >	
CN301	* 1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P	
		< SWITCH >	
S191	1-572-086-11	SWITCH, LEAF (LOAD OUT)	
S192	1-572-086-11	SWITCH, LEAF (LOAD IN)	
**********			
	* A-4617-671-A	MAIN BOARD, COMPLETE (MADE IN FRANCE)	
	* A-4617-740-A	MAIN BOARD, COMPLETE (MADE IN JAPAN:AEP, AUS)	
	* A-4617-825-A	MAIN BOARD, COMPLETE (E, EA)	
		**********	
	* 4-941-237-01	HEAT SINK	
	7-682-547-09	SCREW +B 3X6	
		< CAPACITOR >	

Ref. No.	Part No.	Description				Remark
C201	1-124-572-11	ELECT	100uF	20%	63V	
C202	1-126-059-11	ELECT	10uF	20%	50V	
C203	1-124-887-00	ELECT	3300uF	20%	16V	
C204	1-126-937-11	ELECT	4700uF	20%	16V	
C205	1-126-163-11	ELECT	4.7uF	20%	50V	
C206	1-126-059-11	ELECT	10uF	20%	50V	
C207	1-126-059-11	ELECT	10uF	20%	50V	
C208	1-124-997-11	ELECT	470uF	20%	10V	
C209	1-124-997-11	ELECT	470uF	20%	10V	
C210	1-126-024-11	ELECT	220uF	20%	16V	
C211	1-124-997-11	ELECT	470uF	20%	10V	
C212	1-124-997-11	ELECT	470uF	20%	10V	
C221	1-164-159-11	CERAMIC	0.1uF		50V	
C301	1-126-022-11	ELECT	47uF	20%	16V	
C302	1-126-301-11	ELECT	1uF	20%	50V	
C311	1-130-491-00	MYLAR	0.047uF	5%	50V	
C312	1-161-374-11	CERAMIC	0.0015uF	20%	50V	
C313	1-161-494-00	CERAMIC	0.022uF		25V	
C314	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C315	1-126-300-11	ELECT	0.47uF	20%	50V	
C316	1-161-494-00	CERAMIC	0.022uF		25V	
C317	1-164-159-11	CERAMIC	0.1uF		50V	
C321	1-161-494-00	CERAMIC	0.022uF		25V	
C331	1-162-208-31	CERAMIC	24PF	5%	50V	
C332	1-130-495-00	MYLAR	0.1uF	5%	50V	
C333	1-161-494-00	CERAMIC	0.022uF		25V	
C335	1-162-205-31	CERAMIC	18PF	5%	50V	
C341	1-161-494-00	CERAMIC	0.022uF		25V	
C342	1-126-022-11	ELECT	47uF	20%	16V	
C343	1-161-494-00	CERAMIC	0.022uF		25V	
C344	1-161-494-00	CERAMIC	0.022uF		25V	
C345	1-126-022-11	ELECT	47uF	20%	16V	
C346	1-164-159-11	CERAMIC	0.1uF		50V	
C347	1-126-022-11	ELECT	47uF	20%	16V	
C348	1-164-159-11	CERAMIC	0.1uF		50V	
C349	1-161-494-00	CERAMIC	0.022uF		25V	
C350	1-126-022-11	ELECT	47uF	20%	16V	
C351	1-161-494-00	CERAMIC	0.022uF		25V	
C352	1-126-022-11	ELECT	47uF	20%	16V	
C353	1-162-199-31	CERAMIC	10PF	5%	50V	
C354	1-162-199-31	CERAMIC	10PF	5%	50V	
C355	1-161-494-00	CERAMIC	0.022uF		25V	
C356	1-126-022-11	ELECT	47uF	20%	16V	
C357	1-124-997-11	ELECT	470uF	20%	10V	
C361	1-162-285-31	CERAMIC	180PF	10%	50V	
C362	1-162-285-31	CERAMIC	180PF	10%	50V	
C363	1-162-283-31	CERAMIC	120PF	10%	50V	
C364	1-162-283-31	CERAMIC	120PF	10%	50V	
C365	1-162-283-31	CERAMIC	120PF	10%	50V	
C366	1-162-283-31	CERAMIC	120PF	10%	50V	
C367	1-161-494-00	CERAMIC	0.022uF		25V	
C368	1-161-494-00	CERAMIC	0.022uF		25V	
C371	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C372	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C373	1-130-472-00	MYLAR	0.0012uF	5%	50V	
C374	1-130-472-00	MYLAR	0.0012uF	5%	50V	
C375	1-161-494-00	CERAMIC	0.022uF		25V	

Ref. No.	Part No.	Description			Remark
C376	1-161-494-00	CERAMIC	0.022uF		25V
C377	1-126-022-11	ELECT	47uF	20%	16V
C378	1-126-022-11	ELECT	47uF	20%	16V
C379	1-130-474-00	MYLAR	0.0018uF	5%	50V
C380	1-130-474-00	MYLAR	0.0018uF	5%	50V
C392	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN201	* 1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P (AU BUS)			
CN301	* 1-568-844-11	SOCKET, CONNECTOR 29P			
CN302	* 1-568-822-11	SOCKET, CONNECTOR 22P			
CN391	* 1-565-561-11	PIN, CONNECTOR 3P			
		< DIODE >			
D201	8-719-200-82	DIODE 11ES2			
D202	8-719-109-97	DIODE RD6.8ES-B2			
D203	8-719-200-82	DIODE 11ES2			
D204	8-719-200-82	DIODE 11ES2			
D205	8-719-200-82	DIODE 11ES2			
D206	8-719-200-82	DIODE 11ES2			
D207	8-719-114-49	DIODE RD7.5JS-B2			
D208	8-719-109-89	DIODE RD5.6ES-B2			
D209	8-719-912-20	DIODE 1SS120			
D341	8-719-210-21	DIODE 11EQS04			
D351	8-719-912-20	DIODE 1SS120			
D391	8-719-912-20	DIODE 1SS120			
		< IC >			
IC201	8-759-633-42	IC M5293L			
IC202	8-759-630-21	IC M5290P-16			
IC203	8-759-945-58	IC RC4558P			
IC301	8-752-337-26	IC CXD2500AQ			
IC302	8-752-337-09	IC CXD2554P			
IC303	8-759-917-18	IC SN74HCU04AN			
IC305	8-752-334-87	IC CXD2552Q			
IC306	8-759-990-82	IC TL082CP			
IC307	8-759-945-58	IC RC4558P			
		< JACK >			
J381	1-569-442-11	JACK, PIN 2P (LINE OUT)			
		< COIL >			
L331	1-408-403-00	INDUCTOR	3.3uH		
PS201 ⚠	1-532-685-00	LINK, IC	0.8A		
PS202 ⚠	1-532-637-00	LINK, IC	1.0A		

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q202	8-729-140-96	TRANSISTOR 2SD774-34			
Q203	8-729-111-67	TRANSISTOR 2SB1094-L			
Q204	8-729-900-65	TRANSISTOR DTA144ES			
Q205	8-729-900-89	TRANSISTOR DTC144ES			
Q206	8-729-900-89	TRANSISTOR DTC144ES			
Q207	8-729-230-45	TRANSISTOR 2SC2458-YGR			
Q208	8-729-821-73	TRANSISTOR 2SB1274SA-RS			
Q209	8-729-281-52	TRANSISTOR 2SC1815-Y			
Q343	8-729-900-65	TRANSISTOR DTA144ES			
Q344	8-729-900-89	TRANSISTOR DTC144ES			
Q371	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q372	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q373	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q374	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q392	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R201	1-249-435-11	CARBON	33K	5%	1/4W
R202	1-249-438-11	CARBON	56K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W
R205	1-249-425-11	CARBON	4.7K	5%	1/4W
R206	1-249-417-11	CARBON	1K	5%	1/4W
R207	1-249-417-11	CARBON	1K	5%	1/4W
R208	1-249-423-11	CARBON	3.3K	5%	1/4W
R209	1-249-413-11	CARBON	470	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-249-410-11	CARBON	270	5%	1/4W
R212	1-249-385-11	CARBON	2.2	5%	1/6W
R213	1-249-385-11	CARBON	2.2	5%	1/6W
R214	1-249-417-11	CARBON	1K	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-249-417-11	CARBON	1K	5%	1/4W
R303	1-249-421-11	CARBON	2.2K	5%	1/4W
R304	1-249-417-11	CARBON	1K	5%	1/4W
R311	1-249-423-11	CARBON	3.3K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-423-11	CARBON	3.3K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W
R316	1-249-417-11	CARBON	1K	5%	1/4W
R317	1-249-420-11	CARBON	1.8K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R321	1-249-417-11	CARBON	1K	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-418-11	CARBON	1.2K	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN

Ref. No.	Part No.	Description				Remark
R331	1-249-409-11	CARBON	220	5%	1/4W	
R332	1-247-887-00	CARBON	220K	5%	1/4W	
R333	1-249-417-11	CARBON	1K	5%	1/4W	
R334	1-249-409-11	CARBON	220	5%	1/4W	
R341	1-249-393-11	CARBON	10	5%	1/4W	
R342	1-249-417-11	CARBON	1K	5%	1/4W	
R347	1-249-441-11	CARBON	100K	5%	1/4W	
R348	1-249-429-11	CARBON	10K	5%	1/4W	
R351	1-249-429-11	CARBON	10K	5%	1/4W	
R352	1-249-429-11	CARBON	10K	5%	1/4W	
R353	1-249-429-11	CARBON	10K	5%	1/4W	
R354	1-249-429-11	CARBON	10K	5%	1/4W	
R355	1-247-848-11	CARBON	5.1K	5%	1/4W	
R356	1-249-405-11	CARBON	100	5%	1/4W	
R361	1-247-838-00	CARBON	2K	5%	1/4W	
R362	1-247-838-00	CARBON	2K	5%	1/4W	
R363	1-247-838-00	CARBON	2K	5%	1/4W	
R364	1-247-838-00	CARBON	2K	5%	1/4W	
R365	1-249-432-11	CARBON	18K	5%	1/4W	
R366	1-249-432-11	CARBON	18K	5%	1/4W	
R367	1-249-432-11	CARBON	18K	5%	1/4W	
R368	1-249-432-11	CARBON	18K	5%	1/4W	
R369	1-249-419-11	CARBON	1.5K	5%	1/4W	
R370	1-249-419-11	CARBON	1.5K	5%	1/4W	
R371	1-249-419-11	CARBON	1.5K	5%	1/4W	
R372	1-249-419-11	CARBON	1.5K	5%	1/4W	
R373	1-247-887-00	CARBON	220K	5%	1/4W	
R374	1-247-887-00	CARBON	220K	5%	1/4W	
R375	1-249-409-11	CARBON	220	5%	1/4W	
R376	1-249-409-11	CARBON	220	5%	1/4W	
R377	1-249-409-11	CARBON	220	5%	1/4W	
R378	1-249-409-11	CARBON	220	5%	1/4W	
R379	1-249-425-11	CARBON	4.7K	5%	1/4W	
R380	1-249-425-11	CARBON	4.7K	5%	1/4W	
R381	1-249-425-11	CARBON	4.7K	5%	1/4W	
R382	1-249-425-11	CARBON	4.7K	5%	1/4W	
R383	1-249-414-11	CARBON	560	5%	1/4W	
R384	1-249-414-11	CARBON	560	5%	1/4W	
R391	1-249-417-11	CARBON	1K	5%	1/4W	
R395	1-249-429-11	CARBON	10K	5%	1/4W	
		< SWITCH >				
S201	⚠ 1-571-722-11	SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR) (E, EA)				
		< CRYSTAL >				
X351	1-579-161-11	VIBRATOR, CRYSTAL				

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Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
*	1-636-967-11	POWER SW BOARD (MADE IN JAPAN)	
*	1-637-596-11	POWER SW BOARD (MADE IN FRANCE)	
		**********	
		< SWITCH >	
S501	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)	

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MISCELLANEOUS
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⚠	1-574-127-31	CORD, POWER (MADE IN FRANCE:AEP)	
⚠	1-574-358-31	CORD, POWER (AUS)	
⚠	1-575-651-21	CORD, POWER	
⚠	1-575-653-21	CORD, POWER (E)	
⚠	1-590-379-11	CORD, POWER (UK)	
	1-575-160-11	WIRE, FLAT TYPE (22 CORE)	
	1-535-871-11	JUMPER, FILM (WITH TERMINAL)	
*	1-636-966-11	DISPLAY BOARD (MADE IN JAPAN)	
*	1-452-538-11	MAGNET	
	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
⚠	8-848-144-11	DEVICE, OPTICAL KSS-240A	
M101	X-4917-523-3	MOTOR ASSY (SLED)	
M102	X-4917-504-1	MOTOR ASSY (SPINDLE) (MADE IN JAPAN)	
M191	A-4604-363-A	MOTOR (L) ASSY	
PT101 ⚠	1-449-923-11	TRANSFORMER, POWER (E, EA)	
PT101 ⚠	1-449-925-11	TRANSFORMER, POWER (MADE IN FRANCE)	
PT101 ⚠	1-449-922-11	TRANSFORMER, POWER (MADE IN JAPAN:AEP, AUS)	

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ACCESSORY & PACKING MATERIAL

	1-558-271-11	CORD, CONNECTION (MADE IN FRANCE)
	1-559-533-11	CORD, CONNECTION (MADE IN JAPAN)
	1-569-007-11	ADAPTOR, CONVERSION 2P (E)
	1-569-008-11	ADAPTOR, CONVERSION 2P (EA)
*	3-795-629-11	INSTRUCTION (MADE IN JAPAN:AEP)
*	4-922-998-01	CUSHION (MADE IN JAPAN:AEP, AUS)
*	4-929-563-01	CUSHION (E, EA)
*	4-941-548-01	LABEL, CLASS 1
*	4-942-085-21	INDIVIDUAL CARTION (MADE IN JAPAN)
*	4-942-788-11	INDIVIDUAL CARTION (MADE IN FRANCE)

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HARDWARE LIST

#1	7-621-773-93	SCREW (PANEL 2.6 TP2) (MADE IN JAPAN)
#2	7-682-548-09	SCREW +BVTT 3X8 (S)
#3	7-682-547-09	SCREW +B 3X6
#4	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S (MADE IN JAPAN)
#5	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#6	7-682-547-04	SCREW +BVTT 3X6 (S)
#7	7-621-775-10	SCREW +B 2.6X4
#8	7-621-255-15	SCREW +P 2X3

9-956-188-11

Sony Corporation
Audio Group

English
91B0469-1
Printed in Japan
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Published by Customer Relations and Service Group